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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/994,795	11/28/2001	Takayuki Numa	02110051AA	8391
30743	7590	03/29/2006	EXAMINER	
WHITHAM, CURTIS & CHRISTOFFERSON, P.C. 11491 SUNSET HILLS ROAD SUITE 340 RESTON, VA 20190			VO, HUYEN X	
			ART UNIT	PAPER NUMBER
			2626	

DATE MAILED: 03/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/994,795	Applicant(s) NUMA, TAKAYUKI	
	Examiner Huyen X. Vo	Art Unit 2655	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 February 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

1. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection necessitated by claim amendment and introduction of new claims 21-22.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-4, 7, and 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harif (US 6820056) in view of Norris (US 5280524).

4. Regarding claims 1 and 7, Harif discloses a method and system for inputting an instruction to operate a computer, comprising the steps of: retrievably storing a plurality of registered sounds in a memory (*sound commands 52 in figure 2*), each of the registered sounds corresponding to a different instruction (*col. 5, lines 1-65*); searching the memory for an instruction using the input sound as a key (*elements 84-88 in figure 7 and/or referring to col. 6, lines 30-43*); and determining the instruction to operate the computer (*elements 84-88 in figure 7 and/or referring to col. 6, lines 30-43*); wherein the

user may operate the computer without using voices (*the system of figure 2 recognizes both voice and non-voice commands*).

Harif fails to specifically disclose the step of inputting an input sound through the bone conduction microphone, wherein the input sound may not be voices, wherein the bone conduction microphone has picked up the sound produced in the oral cavity of the user, and a head-mounted system comprising the bone conduction microphone is discreetly hidden. However, Norris teaches the step of inputting an input sound through the bone conduction microphone, wherein the input sound may not be voices, wherein the bone conduction microphone has picked up the sound produced in the oral cavity of the user (*bone conduction microphone/speaker 10 in figures 1-2 and 4*), a head-mounted system comprising the bone conduction microphone is discreetly hidden (*figure 4, the bone conduction microphone and its support is hidden in the ear of the user. Also, the user may have long hair that may completely cover the ear and the bone conduction microphone*).

Since Harif and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Harif by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

5. Regarding claims 2-4, Harif further discloses the method according to claim 1, wherein each of the registered sounds stored in the memory is determined by at least one predetermined unit sound which is allowed to be produced in the oral cavity of the

user (*the comparison step 55 in figure 2*), wherein each of the registered sounds stored in the memory is determined by a combination of said at least one predetermined unit sound produced for a predetermined time period after a first unit sound has been produced (*the comparison step 55 in figure 2*), wherein each of the registered sounds is produced by one of teeth-clicking and tongue-moving (*col. 4, lines 38-44*).

6. Regarding claims 21-22, Harif fails to specifically disclose that the head-mounted system is hidden in the user's hair and is mounted in the ear. However, Norris teaches that the head-mounted system is hidden in the user's hair and is mounted in the ear (*figure 4, the bone conduction microphone and its support is hidden in the ear of the user. Also, the user may have long hair that may completely cover the ear and the bone conduction microphone*).

Since Harif and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Harif by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

7. Claims 6 and 9-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harif (US 6820056) in view of Norris (US 5280524), as applied to claims 1 and 7 respectively, and further in view of Tognazzini (US 5790974).

8. Regarding claims 6 and 9, the modified Harif fails to specifically disclose the method and system according to claims 1 and 7, wherein the computer has a calling function of making a call, wherein the instruction to the computer is to make a call to a predetermined destination. However, Tognazzini further teaches that the computer has a calling function of making a call, wherein the instruction to the computer is to make a call to a predetermined destination (*figures 4a-c or col. 11, ln. 1 to col. 14, ln. 39*).

Since the modified Harif and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Harif by incorporating the teaching of Tognazzini in order to automatically update and notify the user of his schedule.

9. Regarding claim 10, Harif further discloses a system according to claim 7, further comprising: a memory storing a plurality of programs, wherein the processor selects one of the programs depending on the instruction and executes the selected program (*col. 3, lines 19-67*).

10. Regarding claim 11, the modified Harif further discloses a system according to claim 10, further comprising a communication section for making a call (*col. 2, line 64 to col. 3, line 2*), but fails to specifically disclose that the programs includes a telephone-calling program including a predetermined message, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction.

However, Tognazzini teaches that the programs include a telephone-calling program including a predetermined message, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction (*figures 4a-c or referring to col. 11, line 1 to col. 14, line 39*).

Since the modified Harif and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Harif by incorporating the teaching of Tognazzini in order to automatically update and notify the user of his schedule.

11. Regarding claim 12, the modified Harif fails to disclose a system according to claim 11, further comprising: a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination. However, Tognazzini further teaches a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination (*figures 4a-c or refer to col. 11, line 1 to col. 14, line 39*).

Since the modified Harif and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Harif by incorporating the teaching of

Tognazzini in order to determine the time of travel from the user's location to the meeting's location.

12. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Dahan et al. (US 6018708) in view of Norris (US 5280524), and further in view of Harif (US 6820056).

13. Regarding claim 13, Dahan et al. disclose a system comprising an input/output device and a main processing device, which are provided separately from each other, wherein the input/output device comprises: a microphone for picking up a sound produced in an oral cavity of a user (*col. 2, ln. 60-67*); and a first communication section for communicating with the main processing device (*telephone 101 in figure 1 and col. 2, ln. 60-67*), and the main processing device comprises: a second wireless communication section for communicating with the input/output device (*figures 4 or 6 and col. 2, ln. 60-67*); a database for retrievably storing a plurality of registered sounds, each of the registered sounds corresponding to a different instruction (*dictionary 403 or referring to col. 8, ln. 45-67*); and a processor controlling such that, when inputting an input sound from the input/output device through the second wireless communication section, the database is searched for an instruction corresponding to the input sound and, when the instruction is found, an operation corresponding to the instruction is performed (*col. 8, ln. 45 to col. 9, ln. 67*).

Dahan et al. fail to disclose that the microphone is a bone conduction microphone mounted on a head of a user, and a head-mounted system comprising the bone conduction microphone is discreetly hidden. However, Norris teaches that the microphone is a bone conduction microphone mounted on a head of a user (*bone conduction microphone/speaker 10 in figures 1-2 and 4*), and a head-mounted system comprising the bone conduction microphone is discreetly hidden (*figure 4, the bone conduction microphone and its support is hidden in the ear of the user. Also, the user may have long hair that may completely cover the ear and the bone conduction microphone*).

Since Dahan et al. and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Dahan et al. by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

The modified Dahan et al. fail to specifically disclose that the input sound may not be voices. However, Harif teaches that the input sound may not be voices (*Harif's invention is directed to sound recognition rather than voice recognition*).

Since the modified Dahan et al. and Harif are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Dahan et al. by incorporating the teaching of Norris in order to enhance recognition accuracy by using non-verbal sounds rather verbal commands because non-verbal sounds are more distinct from each other than verbal commands.

14. Claims 15 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dahan et al. (US 6018708) in view of Norris (US 5280524), Harif (US 6820056), as applied to claim 13 above, and further in view of Tognazzini (US 5790974).

15. Regarding claim 15, Dahan et al. do not disclose a system according to claim 13, wherein the main processing device further comprises: a memory storing a plurality of programs including a telephone-calling program having a predetermined message therein; and a communication section for making a call using a public network, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction.

However, Tognazzini teaches a memory storing a plurality of programs including a telephone-calling program having a predetermined message therein; and a communication section for making a call using a public network, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction (*figures 4a-c or referring to col. 11, ln. 1 to col. 14, ln. 39*).

Since the modified Dahan et al. and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Dahan et al. by incorporating the teaching of Tognazzini in order to automatically update and notify the user of his schedule.

16. Regarding claim 17, the modified Dahan et al. do not disclose a system according to claim 15, further comprising: a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination. However, Tognazzini further teaches a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination (*figures 4a-c or refer to col. 11, ln. 1 to col. 14, ln. 39*).

Since the modified Dahan et al. and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Dahan et al. by incorporating the teaching of Tognazzini in order to determine the time of travel from the user's location to the meeting's location.

17. Claims 14 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al. (US 5199080) in view of Norris (US 5280524), and further in view of Harif (US 6820056).

18. Regarding claim 14, Kimura et al. disclose a system comprising an input/output device and a main processing device, which are provided separately from each other, wherein the input/output device comprises: a microphone for picking up a sound

produced in an oral cavity of a user (*Microphone M in figure 5*); a database for retrievably storing a plurality of registered sounds, each of the registered sounds corresponding to a different instruction (*Standard Pattern Storage Unit 5 in figure 5*); and a first processor controlling such that, when inputting an input sound from the microphone, the database is searched for an instruction corresponding to the input sound (*Digital Processor 41 in figure 7*); and a first wireless communication section for sending the instruction to the main processing device (*Infrared LED D1 in figure 5*), and the main processing device comprises: a second wireless communication section for receiving the instruction from the input/output device (*Receiver 102 in figure 1*); and a second processor controlling such that, when inputting the instruction from the input/output device through the second wireless communication section, an operation corresponding to the instruction is performed (*Controlled Device 103 in figure 1 should include processor*).

Kimura et al. fail to specifically disclose that the microphone is a bone conduction microphone mounted on a head of a user provided that a head-mounted system comprising the bone conduction microphone is discreetly hidden. However, Norris teaches that the microphone is a bone conduction microphone mounted on a head of a user provided that a head-mounted system comprising the bone conduction microphone is discreetly hidden (*bone conduction microphone/speaker 10 in figures 1-2 and 4, figure 4, the bone conduction microphone and its support is hidden in the ear of the user. Also, the user may have long hair that may completely cover the ear and the bone conduction microphone*).

Since Kimura et al. and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Kimura et al. by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

The modified Kimura et al. fail to specifically disclose that the input sound may not be voices. However, Harif teaches that the input sound may not be voices (*Harif's invention is directed to sound recognition rather than voice recognition*).

Since the modified Kimura et al. and Harif are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Kimura et al. by incorporating the teaching of Harif in order to enhance recognition accuracy by using non-verbal sounds rather verbal commands because non-verbal sounds are more distinct from each other than verbal commands.

19. Regarding claim 19, Kimura et al. disclose an input/output device comprising: a microphone for picking up a sound produced in an oral cavity of a user (*Microphone M in figure 5*); a database for retrievably storing a plurality of registered sounds, each of the registered sounds corresponding to a different instruction (*Standard Pattern Storage Unit 5 in figure 5*); a processor controlling such that, when inputting an input sound from the microphone, the database is searched for an instruction corresponding to the input sound (*Digital Processor 41 in figure 7*); and an interface to an external information

processing device, for sending the instruction to the external information processing device (*Infrared LED D1 in figure 5*).

Kimura et al. fail to specifically disclose that the microphone is a bone conduction microphone mounted on a head of a user provided that a head-mounted system comprising the bone conduction microphone is discreetly hidden. However, Norris teaches that the microphone is a bone conduction microphone mounted on a head of a user provided that a head-mounted system comprising the bone conduction microphone is discreetly hidden (*bone conduction microphone/speaker 10 in figures 1-2 and 4, figure 4, the bone conduction microphone and its support is hidden in the ear of the user. Also, the user may have long hair that may completely cover the ear and the bone conduction microphone*).

Since Kimura et al. and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to modify Kimura et al. by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

The modified Kimura et al. fail to specifically disclose that the input sound may not be voices. However, Harif teaches that the input sound may not be voices (*Harif's invention is directed to sound recognition rather than voice recognition*).

Since the modified Kimura et al. and Harif are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Kimura et al. by incorporating the teaching of Harif in order to enhance recognition accuracy by using non-verbal sounds

rather verbal commands because non-verbal sounds are more distinct from each other than verbal commands.

20. Regarding claim 20, Kimura et al. fail to disclose a input/output device according to claim 19, further comprising: a bone conduction speaker for producing bone conduction vibrations, wherein the bone conduction speaker is mounted on the head of the user, wherein the sound signal received from the external information processing device through the interface is output to the bone conduction speaker which converts it into bone conduction vibrations.

However, Norris further teaches a bone conduction speaker for producing bone conduction vibrations, wherein the bone conduction speaker is mounted on the head of the user, wherein the sound signal received from the external information processing device through the interface is output to the bone conduction speaker which converts it into bone conduction vibrations (*figures 1-2 and 4 used with a system having speech recognition capability in figure 5 or col. 8, lines 14-54*).

Since Kimura et al. and Norris are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Kimura et al. by incorporating the teaching of Norris in order to reduce introduction of external noise to the signal of interest.

21. Claims 16 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kimura et al. (US 5199080) in view of Norris (US 5280524), in view of Harif (US

6820056), as applied to claim 14 above, and further in view of Tognazzini (US 5790974).

22. Regarding claim 16, the modified Kimura et al. do not disclose a system according to claim 14, wherein the main processing device further comprises: a memory storing a plurality of programs including a telephone-calling program having a predetermined message therein; and a communication section for making a call using a public network, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction.

However, Tognazzini teaches a memory storing a plurality of programs including a telephone-calling program having a predetermined message therein; and a communication section for making a call using a public network, wherein the telephone-calling program is selected by the processor to make a call to send the predetermined message to a predetermined destination depending on the instruction (*figures 4a-c or referring to col. 11, ln. 1 to col. 14, ln. 39*).

Since the modified Kimura et al. and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Kimura et al. by incorporating the teaching of Tognazzini in order to automatically update and notify the user of his schedule.

23. Regarding claim 18, the modified Kimura et al. do not disclose a system according to claim 16, further comprising: a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination. However, Tognazzini further teaches a GPS receiver for receiving GPS signals to obtain geographical location information, wherein the predetermined message with the geographical location information is sent to the predetermined destination (*figures 4a-c or refer to col. 11, ln. 1 to col. 14, ln. 39*).

Since the modified Kimura et al. and Tognazzini are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Kimura et al. by incorporating the teaching of Tognazzini in order to determine the time of travel from the user's location to the meeting's location.

24. Claims 5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Harif (US 6820056) in view of Norris (US 5280524), as applied to claims 1 and 7 respectively, and further in view of Oh et al. (US 6185537).

25. Regarding claim 5, the modified Harif further discloses that the determining step comprises the steps of: checking for the instruction through a display unit (*col. 6, lines 18-43*); and when receiving no negative response, finally determining the instruction to operate the computer (*col. 6, lines 18-43*); and a bone conduction microphone/speaker

pair used with a speech recognition system (see *Norris figure 5 and/or 8, lines 14-54*).

The modified Harif fails to specifically disclose the checking step and the receiving step are done audibly. However, Oh et al. further teaches the steps of: d.1) checking for the instruction through a speaker (*step 76 in figure 3*); and d. 2) when receiving no negative response through the microphone, finally determining the instruction to operate the processing unit (*step 76 in figure 3*).

Since the modified Harif and Oh et al. are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Harif by incorporating the teaching of Oh et al. in order to enable the user to verify recognition results without the need of looking at the monitor so that the user can perform multitasks at the same time.

26. Regarding claim 8, the modified Harif further discloses the steps of checking for the instruction through a display unit (*col. 6, lines 18-43*); and when receiving no negative response, finally determining the instruction to operate the computer (*col. 6, lines 18-43*); and a bone conduction microphone/speaker pair used with a speech recognition system (see *Norris figure 5 and/or 8, lines 14-54*); and a bone conduction speaker for producing bone conduction vibrations, wherein the bone conduction speaker is mounted on the head of the user (see *Norris figure 5 and/or col. 8, lines 14-54*). The modified Harif fails to specifically disclose the checking step and the receiving step are done audibly. However, Oh et al. further teaches the steps of: d.1) checking for the instruction through a speaker (*step 76 in figure 3*); and d. 2) when receiving no

negative response through the microphone, finally determining the instruction to operate the processing unit (*step 76 in figure 3*).

Since the modified Harif and Oh et al. are analogous art because they are from the same field of endeavors, it would have been obvious to one of ordinary skill in the art at the time of invention to further modify Harif by incorporating the teaching of Oh et al. in order to enable the user to verify recognition results without the need of looking at the monitor so that the user can perform multitasks at the same time.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huyen X. Vo whose telephone number is 571-272-7631. The examiner can normally be reached on M-F, 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on 571-272-7602. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

HXV

3/21/2006


RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER